Colby Community College
“Get a Jump Start!”
CCC Wind Energy Journey

1. Partnerships
2. Course Development
3. Media Development
4. Funding
1. Wind Energy Partnerships

- Wind for Schools Program
  - Accepted Spring 2009
  - Different Twist
    - (7) local high schools participating
  - Spring 2010 construction
Anemometer Tower

- Partnership K-State, Midwest Energy, KSU Extension Service
- July 2009
- KSU students
- Use
NRG Data

Wind Class Frequency Distribution

![Wind Class Frequency Distribution Chart]

![Wind Rose Diagram]

**Wind Speed (m/s)**
- Pink: > 14.0
- Purple: 10.0 - 14.0
- Blue: 5.0 - 9.8
- Green: 5.0 - 7.8
- Red: 4.0 - 5.7
- Yellow: 3.0 - 4.9
- Blue: 2.0 - 2.9
- Black: < 2.0

CAMS: 0.45%
Regional Small Wind Turbine Test Site

- Partnered with K-State, Midwest Energy, KSU Extension Service
- Proposal NREL 12/8/09
  - (4) Regional Test Centers certify small wind turbines
NWKS Regional Energy Collaborative

- Dan Hartman
  - (2) years ago
- Collaborative group of (18) counties
- Educate/promote wind energy development
  - Wind Energy Conferences
    - April, 2009
    - April, 2010

Practical Landowner Information On Wind Energy

Colby Community College, Cultural Arts Center
April 3, 2009...Friday
10:00 am to 1:30 pm
Lunch will be provided

Speakers:
- Dan Hartman, Facilitator of NW KS Energy Collaborative & Economic Development Director, Logan County
- Don Teske, President, Kansas Farmers Union
- Bob Crane, NWKS Collaborative attorney
- Jennifer O’Hara, Lincoln county attorney
- Mike Irwin, Farm Bureau Legal Foundation
- Dan Nagengast, President, Kansas Rural Center

Topics:
- Information pertinent to landowners in NW Kansas
  - Lease arrangements
  - Agricultural Implications
  - Community Wind

Fee: $10.00  This will be excellent information, don’t miss it!

Further Information:
Barry Knez
Colby Community College
785-468-5428
Preregister at www.colbycc.edu
Or
Contact Kathy Cynon at 468-5413
www.colbycc.edu
Private Industry/Governmental Partnerships

- Acciona
  - Wind Energy
- WinSoHy
  - CAES
- Colby Implement (John Deere)
  - Wind Energy
- Woofter Pump & Well
  - Geothermal
- Kansas Sierra Club
- United States Air Force Academy
- Numerous letters; county commissioners & economic development directors
2. Course Development

- AE176: March, 2010
- Intro: Wind, Solar, Geothermal, BioFuel
- (3) hr in Fall, 2010
Course Development (cont)

Associate of Science
Alternative Energy

- Wind for Schools
- SkyStream 3.7 Construction
- Online Courses
- Intro to Wind
- Project Management
- Alternative Energy
- Design, Install, Manage
3. Media Education

For optimal viewing, please right-click on the links below and save to your computer to listen.

**Podcasts:**
- Wind Energy
- Energy Efficiency Technology

**Videos:**
- Governor Parkinson on Transmission
- Governor Parkinson talks on last 10 years
- Governor Parkinson talks on Individual Wind
- Michael Eckhart ACORE Transmission and Solar

**NWKS Regional Energy Collaborative Videos Featuring Dan Hartman**

- Part 1: Overview
- Part 2: Knoll-Burlington Transmission Line
- Part 3: CAES Systems
- Part 4: Northwest Kansas Development
- Part 5: Northwest Kansas Wind Center
Scout Powwow
4. Funding

- Kansas Board of Regents Technology Grant
  - $33,000

- Title III Online Course Development
  - $1.8 million

- Kansas Department of Commerce
  - Recent $6 million award